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Aquatic Reso	ources - Provide f	o <mark>r Upstream Passage of</mark>	Anadromous Fish		<u> </u>				<u> </u>					
EWG-1	Low Flow Channel	Impaired Fish Passage	Adult Chinook Salmon Holding Habitat and Spatial Separation of Spawning Spring-Run Chinook Salmon and Fall-Run Chinook Salmon	Open Fish Barrier Pool to fish passage and allow the pool to be used as a spring Chinook salmon holding. Requires the addition of a fish ladder to the Fish Barrier Dam and modifying the existing ladder with a branch to the Fish Barrier Pool. (FR-1)	1	X	X	X	X		X	SP-F3.1 SP-F10 Task 1F	Information is needed on feasibility of utilizing existing holding habitat for spring- run Chinook salmon in Fish Barrier Pool (March-June). This information is expected from SP-F10 Task 1E. If habitat exists, need conceptual design and costs.	
EWG-2	Low Flow Channel	Impaired Fish Passage	Adult Chinook Salmon Upstream Passage and Spatial Separation of Spring-Run	Install a weir at lower end of low flow section (from July 1st to November 15th) to selectively pass desired fish species into the low flow channel. Currently, fishes in the Feather River are allowed free access into the upper portions of the low flow channel. This Resource Action would address concerns about high salmonid spawning densities in the low flow channel and provide an opportunity to segregate the spring and fall runs of Chinook salmon in the Feather River. (FR-2)			X	X	X	X	X	location and quality of spawning habitat: SP- F10 Task 2A, 2B, 2C	Related to EWG-34 & EWG-41. Need to identify suitable location and develop conceptual design. This action would require a method for collecting adult fall-run Chinook salmon for the Feather River Fish Hatchery broodstock collection. This Resource Action could also effect boating. Provides additional benefit of providing a constriction point for immigration and/or emigration monitoring activities. Also reduces superimposition on spring-run Chinook salmon by fall-run Chinook salmon.	
EWG-3	Low Flow Channel	Impaired Fish Passage		This Resource Action would increase flows during critical upstream passage periods for sturgeon at Steep Riffle. Currently, flows in the low flow reach are maintained at 600 cfs, except during flood events or occasional temporary changes in project operations.	•	X		X	X	X	X	SP-F3.2 Task 3A; UCD study on sturgeon swimming performance	Potential cross-resource impact on riparian vegetation and fluvial processes, depending on the magnitude of flow alterations. Timing of sturgeon upstream migration is February-June. SP-F3.2 Task 3A assessment concluded that green sturgeon could likely ascend steep riffle without complication—therefore, no need is currently identified for this PM&E.: March-June (spring-run Chinook salmon), September-December (fall-run Chinook salmon), September-January (steelhead), SP-F10 Task 1C determined that under current operating parameters flow related physical passage impediments to adult salmonid upmigration are not apparent and May-June (shad).	
EWG-4	High Flow Channel	Impaired Fish Passage	Provide Attraction Flows for Adult Upstream Migration	Use high flow pulses in winter-spring (Feb-May) as cues to enhance upstream migration of spring-run Chinook salmon, shad, steelhead sturgeon, and splittail. (FR-15) (FR-29)		x			x	X	X		Flow could originate from the Thermalito Afterbay Outlet or the Diversion Dam. Need additional information on attraction and pulse flows. Potential cross-resource effect on riparian vegetation and fluvial processes, depending on the magnitude of flow alterations. Redds constructed in shallow water during pulse flows may result in dewatering or juvenile fish stranding (Chinook salmon and steelhead).	
EWG-5	High Flow Channel	Impaired Fish Passage	Upstream Passage for Adult Sturgeon and Shad	Under low flow conditions, Shanghai Bench and Sunset Pumps may be impassable for sturgeon and/or American shad due to high water velocities in some areas and a vertical height barrier. Structurally modify the Sunset Pumps and Shanghai Bench areas to aid passage of sturgeon, and shad. This Resource Action would provide physical changes to these areas to aid anadromous fish passage. (FR-16, FR-17)	r 7 F 1	X	X		X	X	x	3A	Need velocity information under different low flow conditions. Combines related Resource Actions related to Sunset Pumps from February 19 and March 26, 2003 EWG meetings.	

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EWG-9	High Flow Channel	Impaired Fish Passage	Provide Increase Flows for Fish Passage Past Barriers	Provide increase flows to allow fish passage over barriers in lower Feather River. (FR-21)		X			X	X	X	SP-F3.2 Task 3A SP-F10 Task 1C SP-F10 Task 1A	These additional flows would help to provide passage beyond Sunset Pumps and Shanghai Bench. [Flows in the Yuba River also effect passage at Sunset Pumps.] Passage would be most beneficial for sturgeon, shad and Chinook (under low flow/dry year conditions). This Resource Action differs from EWG-4 in that EWG-9 provides flows to allow for passage, while EWG-4 provides attraction flows encourage migration. Also related to EWG-5.
EWG-97	Lake Oroville	Impaired Fish Passage	Adult Anadromous Fish Upstream Passage	Provide upstream passage of anadromous fish (e.g., spring-run Chinook) through trap and transport program. [Passage would be to locations upstream of Oroville Dam including the upstream tributaries.]		X	X	X	X	X	X	SP-F15	This Resource Action is a place holder for the potential re-introduction of spring- run Chinook to the upstream tributaries of Lake Oroville. Information is forthcoming from NOAA Fisheries. SP-F15 will provide an analysis of the feasibility of providing passage for anadromous fish upstream of Lake Oroville using a wide variety of fish passage mechanisms/programs. There is also a concern related to potential fish disease.
Aquatic Reso	ources - Provide fo	or Passage of Resident	Fish										
EWG-10A	Upstream Tributaries	Impaired Fish Passage	Upstream Passage of Lake Oroville's Resident Fish	Provide resident fish with access to the upstream tributaries by removing sediment plugs which occur where the upstream tributaries enter Lake Oroville.		X	X	X	X	X	X		Combines similar Resource Actions by removing upstream barriers. Similar to EWG-10B. Related to EWG-96. Evaluation of introducing fish in Lake Oroville to areas that they have not had access to should include consideration of: predation, disease transmission, genetic introgression, and competition for food and habitat.
EWG-10B	Upstream Tributaries	Impaired Fish Passage	Upstream Passage of Lake Oroville's Resident Fish	Provide resident fish with access to the upstream tributaries by removing boulders, and manmade barriers. This Resource Action could include the removal of Big Bend Dam or the construction/repair of fish passage facilities at this site to open up the Poe Reach. (LO-5, LO-6, LO-7)		X	x	x	X	X	X		Combines similar Resource Actions by removing upstream barriers. Similar to EWG-10A. Related to EWG-96. Evaluation of introducing fish in Lake Oroville to areas that they have not had access to should include consideration of: predation, disease transmission, genetic introgression, and competition for food and habitat.

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Aquatic Reso	urces - Limit Dov	vnstream Passage of H	atchery Produced Trout to M	linimize Potential Effects on Natural Steelhead Reproduction									
EWG-11	High Flow Channel	Stocked Fish Passage	Passage of Stocked Rainbow Trout Into Feather River	Install a device (e.g., fish screens) at the Thermalito Afterbay Outlet, the Thermalito Power Plant, or the tailrace that will prevent downstream passage of rainbow trout from the Thermalito Forebay into the Feather River. (TC-1)			X	X	X	X	X	Interactions between	Obtain information from screw-trap and snorkel surveys to assess impacts level. Related to genetics and disease. Current level of trout passage into the Feather River from Thermalito Afterbay Outlet is yet undetermined. Currently rainbow trout are stocked in the Thermalito Forebay for a "put and take" fishery. This Resource Action will address concerns about hatchery-origin trout interacting with natural steelhead in the Feather River. Ceratomyxa may eliminate most planted trout within several weeks.
Aquatic Reso	urces - Improve l	Habitat for Anadromou	s and Resident Fish										
EWG-13A	Low Flow Channel	Improve Fish Rearing Habitat	Woody Debris Recruitment for Juvenile Fish Rearing Habitat	Add woody debris in the Feather River. Large woody debris would be anchored or inserted into the river at target locations to provide increased habitat complexity. Source areas for woody debris are upstream of Lake Oroville (FR-4, FR-23)			X	X	X	X	X	Characterize current instream woody debris quantity and distribution: SP-F3.2 Task 4	Related to EWG-20. Additional information on the viability and sustainability of LWD placement in the Feather River flow regime and identification of candidate sites is required.
EWG-13B	Low Flow Channel	Improve Fish Rearing Habitat	Increase Habitat Complexity to Improve Juvenile Fish Rearing Habitat	Add structures such as boulders, etc in the Feather River at target locations to provide increased habitat complexity. (FR-4, FR-23)			X	X	X	X	X		Related to EWG-13. Need to be further developed.
EWG-14	Low Flow Channel	Increase Holding Habitat	Additional Holding Habitat for Adult Spring-Run Chinook Salmon	Create deep pools in low-flow reach of Feather River to provide holding habitat for spring-run Chinook salmon. Deep pools would be created in reaches where water temperatures are expected to be cool enough to provide summer habitat for spring-run Chinook salmon. (FR-5)	X		X	X	X	X	x	Spring-run Chinook salmon holding habitat: SP-F10 Task 1E	SP-F10 Task 1E indicates that potential holding pools are of adequate depth. May impact water quality. Ongoing studies to determine when and where spring-run Chinook over-summer in the low flow channel.
EWG-15	Low Flow Channel	Increase Fish Spawning Habitat	Steelhead	Incrementally increase flows in the low-flow reach of the Feather River during the Chinook salmon and steelhead spawning seasons to increase habitat quantity by providing opportunity for expanded lateral spawning distribution. Reduce redd superimposition and provide additional usable spawning habitat. (FR-6)		X			X	X	X	SP-G2 WUA: For spawning Chinook salmon and steelhead: SP-F16 Redd superimposition: SP-F10 Task 2B	Needs further analysis. Also see IFIM study. SP-F16 may be able to provide an assessment of the benefit associated with this PM&E by evaluating lateral redd distribution in response to flow changes.
EWG-16	Low Flow Channel	Increase Fish Rearing Habitat		Create, restore and/or improve side-channel habitat adjacent to the low-flow reach in the Feather River. The increased habitat complexity will benefit protected, sensitive, or other desired juvenile fish species. (FR-7, FR-8, FR-33)		X	X	X	X	X	X	SP-F16; SP-G2	Needs further analysis on how side-channel habitat will be restored. Ongoing studies associated with SP-G2 will provide data. Could be combined with EWG-21. DWR staff will provide information on specific sties.

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EWG-17	Low Flow Channel	Increase Fish Rearing Habitat	Rearing Habitat for Juvenile Fish Species	Enhance riparian vegetation (including trees) along banks for shading and increased habitat complexity. (FR-9)				X	X	X	X	Identify and Characterize fish habitat: SP-F3.2 Task 4 Influence of cover on habitat suitability: SP-F16	One location for vegetation enhancement could be 'trailer park riffle' along east side, although drawback is that high-water events may require continued maintenance/improvement of this area. Need to potential evaluate site locations	
EWG-18	Low Flow Channel	Increase Fish Spawning Habitat	Spawning Habitat for Chinook Salmon and Steelhead	In areas where armoring has occurred, selected sections of the low-flow reach of the Feather River would be ripped with the goal of improving spawning gravel quality. (FR-10)			X	X	X	X	X	Spawning gravel quality and armoring - SP-F10 Task 2A SP-G2	Areas suitable for ripping are uncertain at this time; further information will be obtained after results from SP-F10 Task 2A have been issued. May impact water quality. Related to EWG-90.	
EWG-19	High Flow Channel	Increase Fish Spawning Habitat	Increase Splittail Spawning Habitat	Modify existing or build vegetated "benches" at various stage elevations in the lower Feather River near Verona to enhance splittail spawning habitat. (FR-22)		X	X	X	X	X	X	SP-T3.2 Task 3B	Benches that provide inundated vegetation would provide suitable habitat for splittail spawning and provide valuable rearing habitat for Chinook salmon.	
EWG-19A	High Flow Channel	Increase Fish Spawning Habitat	Spawning Habitat for Chinook Salmon and Steelhead	Increase the operational flexibility to allow for decreases in water temperatures downstream of the Thermalito Afterbay Outlet to encourage gravel utilization downstream of Thermalito Afterbay Outlet.	v	X		X		X	X		See also EWG 36 & EWG-37.	
EWG-20	High Flow Channel	Spawning Habitat Enhancement	Woody Debris Recruitment for Juvenile Fish Rearing Habitat	Add woody debris in the Feather River. Large woody debris would be anchored or inserted into the river at target locations to provide increased habitat complexity. (FR-23, FR-4)			X	X	X	X	X	instream woody debris	Additional information on the viability and sustainability of LWD placement in the Feather River flow regime and identification of candidate sites is required. Related to EWG-13. This Resource Action would provide the related benefit of increasing organic inputs.	
EWG-21	High Flow Channel	Increase Fish Rearing Habitat	Rearing Habitat for Juvenile Salmonids	Increase quantity of shallow water rearing habitat for juvenile salmonids in the high flow section of Feather River by releasing higher flows. (FR-24)		X		X	X	X	X	Transect data: SP-F16 and SP-G2; Habitat suitability information for rearing Chinook and steelhead: SP-F16	Related to EWG-16. Increasing flows may or may not provide additional shallow water habitat depending upon the shape of the channel. Increased flows may result in loss of suitable habitat with respect to velocities. SP-F16 may provide information describing the relationship between flow and availability of Chinook and steelhead juvenile rearing habitat.	
EWG-22	High Flow Channel	Increase Fish Rearing Habitat	Increase Rearing Habitat for Juvenile Fish Species	Increase connectivity between river channel and lateral habitats (including side channel floodplains) in lower Feather River by setting back levees to create seasonal habitats for Chinook salmon, splittail, steelhead, and sturgeon. (FR-25)		X	X	X	X	X	X	SP-G2	Ongoing studies associated with SP-G2 will provide additional data. Related to EWG-21, EWG-23, EWG-25, & EWG-36. Removing levees will likely impact flood control.	

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EWG-23	High Flow Channel	Increase Fish Rearing Habitat	Rearing Habitat for Juvenile	Provide higher and longer duration flows in winter/spring. Provide flow in the high flow channel to inundate floodplains to provide high quality rearing habitat. This Resource Action would provide higher flows, which would increase quantity of fish (splittail and Chinook) rearing habitat. (FR-26)		X			X	X	X		Ongoing studies associated with SP-G2 will provide additional data. Related to EWG-21, EWG-22, EWG-25, & EWG-36. [Note: Not sufficiently detailed or well-developed to distinguish from EWG-21 and EWG-25.]
EWG-24	High Flow Channel	Increase Fish Rearing Habitat	Rearing Habitat for Juvenile Chinook and Splittail	Construct or create permainant juvanille fish nursery areas for steelhead and Chinook on existing State owned lands or on newly purchased areas. (FR-27)							X		More information needed on potential sizes and areas for land acquisition.
EWG-25	High Flow Channel	Increase Fish Rearing Habitat		Use flow releases from the Thermalito Afterbay Outlet to provide additional floodplain habitats adjacent to the river channel. (FR-28)		X			X	X			Unclear how much increased flow is needed to inundate areas. Could be combined with EWG-21, EWG-23, & EWG-36. Note: Not sufficiently detailed or well-developed to distinguish from EWG-21 and EWG-23.
EWG-26	Thermalito Afterbay	Enhance Fish Habitat	Habitat Complexity for Warmwater Species	Provide habitat enhancement in areas without weeds, primarily through added structure, for warmwater or other target species (i.e. black bass). (TC-4)			X		X		X		Need specifics on habitat enhancement (may be similar to EWG-31).
EWG-28	Thermalito Afterbay	Increase Fish Rearing Habitat	Bass Nest Survival	Manage water levels in the Thermalito Afterbay to provide increased nesting and initial rearing habitat for nesting warmwater species. (TC-6)		X		X		X	X	and evaluation of the effects of fluctuations on hass next dewatering: SP.	There are operational constraints, however, to Thermalito Afterbay water level fluctuations. Need reservoir level and spawning relationship info. Limits operational flexibility. This Resource Action would be most effective in the spring & fall. Potential cross-resource impacts on waterfowl nesting. Additional data is forthcoming.
EWG-29	Oroville Wildlife Area	Enhance Fish Habitat	Aquatic Weed Control	Control aquatic weeds to enhance fish habitat in the OWA ponds. Aquatic weed control could be accomplished using various methods, including but not limited to mechanical control, chemicals, or altering the flows. (TC-11, TC-3)		X		X	X	X	X	Characterize fish habitat in one-mile pond: SP- F3.1 Task 5B	Additional Resource Action impacts would be Terrestrial & Recreational.
EWG-98	Thermalito Afterbay	Fish Rearing Habitat Enhancement	Nursery Habitat Enhancement	Use brood ponds as nursery habitat for warmwater species (i.e black bass) in the Thermalito Afterbay.				X		X			After rearing in brood ponds, fish could be seined out and placed in the Thermalito (Complex or Afterbay). This may be a Recreation issue. Potential concerns could be predation on ducklings and amphibious species.

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EWG-30	Lake Oroville	Protect Nesting Habitat	Bass Nest Survival	Regulate reservoir drawdowns to less than 9 ft/month to reduce bass nest dewatering and subsequent mortality. (LO-1)		X		X		X		elevation reductions on	This Resource Action would be implemented from March to June. Study Plan, SP-F3.1 Task 2C, indicates that under current operating parameters, bass nest survival exceeds the 20% criteria of DFG in all months from March-June. (If implemented, guidance would be to limit potential drawdown rates to less than 9 ft/month.)
EWG-31	Lake Oroville	Enhance Fish Habitat	Bass Habitat Enhancement	Develop/modify habitat enhancement program for fish rearing/refuge in Lake Oroville through the placement of woody debris, Christmas tree reefs, or other, yet to be determined, methods. This Resource Action could include enhancement of spawning and nesting shelters for resident fish (bass and catfish) in the shallow areas of Lake Oroville. Habitat enhancement may incorporate the addition of riprap, concrete, or weighted pipes, or by adding artificial reefs in the shallow areas of Lake Oroville. This Resource Action is related to drawdown because selecting areas for habitat improvement will need to take into account seasonal fluctuations of the reservoir.(LO-4)		X	X	X	X	X			Similar program has been conducted in recent years. Need info on depths of implementation and habitat needs.
Aquatic Reso	<mark>urces - Provide N</mark>	utrients from Anadror	nous Fish to Support Desired	Ecological Function									
EWG-32	Upstream Tributaries	Salmonid Nutrient Enhancement	Nutrient Supplementation For Salmonids	This Resource Action would supplement tributaries to Lake Oroville with salmon carcasses or carcass analogs (chemicals) to increase levels of marine-derived nutrients (assuming nutrient supplementation is desired). (LO-8)				X	X	X		SP-W1 & SP-F8	Nutrient sampling as part of SP-W1 will provide baseline condition data. Related to removing fish passage barriers in upstream tributaries to enhance nutrient cycling. Could have cross-resource impact with riparian vegetation at supplementation sites from increased nutrient loading. If carcasses used, timing of supplementation likely late-winter/early spring, but depends on carcass availability. Potential issues would include water quality, fish disease, public health concerns, and potential effects on recreation.
EWG-33	Upstream Tributaries	Salmonid Nutrient Enhancement	Nutrient Supplementation For Salmonids	Provide salmonids resident with access to the upstream tributaries by removing sediment plugs, boulders, and manmade barriers. This Resource Action could include the removal of Big Bend Dam or the construction/repair of fish passage facilities at this site to open up the Poe Reach. (LO-5, LO-6, LO-7)		X	x	x	x	x	x		Fish would migrate up from Lake Oroville, die, and as they decay, nutrients would be introduced to the waters in the upstream tributaries. This Resource Action is essentially the same as EWG-10. This could also potentially benefit planted Koho
Aquatic Reso	urces - Reduce P	redation on Salmonids	and other Native Aquatic Spe	ecies							•		
EWG-27 (move to this section)	Low Flow Channel	Fish Predation	Rearing Habitat for Juvenile Fish Species	Fill or reclaim Robinson Riffle Borrow pond (used for gravel extraction) to reduce predator habitat. (TC-5)			X		X		X	SP-G2	Could result in increases in water temperatures because of increased surface area. Potential contaminant concerns (i.e. mercury). Need specifics on amount of habitat that would be reclaimed and which fish species use the pond.

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EWG-34	Low Flow Channel	Fish Predation	Predation on Juvenile Fish Species	Exclusionary devices (e.g., weirs) placed at the lower part of the low flow section would have a potential benefit of reducing predation on salmonids in the low flow section of the Feather River. (FR-14)		X	X	X	X	X			Extent of effect of predation on juvenile salmonids is unquantified Sacramento pikeminnow most common native predator. Resource Action could impact navigation/boating. Could be combined with EWG-2 & EWG-41.	
EWG-35	High Flow Channel	Fish Predation	Predation on Juvenile Fish Species	Lower existing water temperatures at the Thermalito Afterbay Outlet for the purpose of reducing feeding rates for predators in the Feather River. (TC-9)		X		X	X	X		Water Temp Modeling Study	Data needed on impact of cooler flows to Feather River biotic resources. (Cooler water may result in slower growth for salmonids.) Unclear to what extent colder releases from the Thermalito Afterbay could lower Feather River water temperatures. Extent of effect of predation on juvenile salmonids is unquantified. Related to EWG-37 and EWG-83. The use of water temperature as a mechanism to exclude predators from the LFC could also be discussed. Need to find out what time of year would this take place and by how much would water temperatures be lowered.	
EWG-42	High Flow Channel	Fish Predation	Feather River Fish Hatchery Practices	Release hatchery steelhead at a smaller size or alter release timing so predators are not conditioned to releases-(FR-30)						X	X	SP-F9 SP-F21	Requires coordination with Cal F&G. This Resource Action was moved from previous location because it deals specifically with predation.	
Aquatic Reso	ources - Provide D	esirable Water Tempe	eratures for Cold Water Fish	Species							<u>, </u>			
EWG-36	Low Flow Channel	Water Temperature	Immigration, Spawning, and/or Rearing Habitat Enhancement for Chinook Salmon and Steelhead	Operate the Oroville Facilities in a manner which would provide additional cold water in the low flow channel of the Feather River for benefit of Chinook salmon and steelhead.(TC-7)		X		X	X	x		-Water Temp. on prespawning adults: SP-F10 Task 1D -Water Temp. on holding habitat: SP-F10 Task 1E -Water Temp on Spawning and Incubation: SP-F10 Task 2C -Water Temp on Juvenile Rearing: SP-F10 Task 3B -Water Temp on Emigration: SP-F10 Task 4B	Uncertain how much cooler water would be needed from Lake Oroville to affect water temperatures in the Feather River. Will get info from modeling efforts.	

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EWG-37	High Flow Channel	Water Temperature	and/or Rearing Habitat Enhancement for Chinook	Operate the Oroville Facilities in a manner which would provide additional cold water in the low flow channel of the Feather River for benefit of Chinook salmon and steelhead. (TC-7)	X	X		X	X	x		2C	Uncertain how much cooler water would be needed from Thermalito Complex that could affect water temperatures in the Feather River. Will get info from modeling efforts. Related to EWG-35 and EWG-83.
EWG-38	Lake Oroville	Water Temperature		Manage withdrawls from Lake Oroville to minimize reduction of coldwater pool. (LO-3)		X		X		X	X	Water Temp Modeling Study & SP-F3.1, Task 2B	Ongoing studies indicate that under current operating parameters, sufficient coldwater is available to support salmonids stocking goals. Related to EWG-51. Will get info on coldwater pool from modeling efforts.
Aquatic Reso	urces - Minimize	Hatchery Impacts on A	Anadromous Salmonids and F	Resident Fish						•			
EWG-39	Low Flow Channel	Fish Disease Concerns	•	Evaluate all proposed management actions for relevance to fish disease concerns. (FR-11, FR-30, TC-11, LO-2)								SP-F2	Not a PM&E. Could be combined with EWG-43, EWG-46, & EWG-49.
EWG-40	Low Flow Channel	Enhance Fish Habitat	Over-Escapement Related to	Decrease hatchery production of salmon so that there is less crowding and competition for limited spawning habitat in the low flow section of the Feather River. (FR-12, FR-31)						X		Redd superimposition SP F10 Task 2B SP-F9	Requires coordination with Cal F&G.
EWG-41	Low Flow Channel	Hybridization	Maintain the Genetic Integrity of Spring-Run and Fall-Run Chinook Salmon	Use a weir to monitor and restrict access of returning adult Chinook salmon to the low flow section of the Feather River. This Resource Action potentially would reduce genetic introgression between Chinook races and between hatchery/wild salmonids. This Resource Action also would potentially reduce crowding and competition for limited spawning habitat. (FR-13) (FR-32)			X	X	X				Could be combined with EWG-2 & EWG-34.
EWG-43	High Flow Channel	Fish Disease Concerns		Evaluate all proposed management actions for relevance to fish disease concerns. (FR-11, FR-30, TC-11, LO-2)									Not a PM&E. Could be combined with EWG-39, EWG-46, & EWG-49.
EWG-44	Thermalito Complex	Fish Disease Concerns	Stocked Fish Diseases	Evaluate current rainbow trout stocking program in Forebay to look at angler preferences and to prevent the spread of fish diseases (<i>C. shasta or IHN</i>). Screen all stocked fish for fish diseases. Potentially cease fish planting in Thermalito Forebay to prevent disease transmission to fishes in the Feather River. (TC-8)				X		X			Related to EWG-11. Indications are that the rainbow trout contract <i>C. shasta</i> and die within two weeks.

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EWG-45	Thermalito Forebay	Recreational Fishery Enhancement	Recreational Fishery	Create trophy salmonid stocking program in Afterbay similar to trophy program in Lake Oroville. (TC-10).				X	X	X			Possible conflict due to interactions between salmonids in Feather River (see EWG-44). Requires coordination with Cal F&G. Cold water needs in Afterbay for stocked fish could impact rice farmer needs. Also could implement program in Thermalito Diversion Pool.
EWG-47	Oroville Wildlife Area	Recreational Fishery Enhancement	Increase Fish Production	Create trout stocking program in suitable OWA ponds. Program would operate seasonally and all stocked fish would be screened for disease. (TC-12)				X	X		X		Stocked fish have potential to interact with the fish in the Feather River. A stocking program could be combined with EWG-48. Disease screening won't do any good if the fish don't contract the disease until they are planted.
EWG-48	Oroville Wildlife Area	Recreational Fishery Enhancement	Increase Production for Recreational Fishery	Stock warmwater species (e.g., Florida strain bass) in selected OWA ponds to create trophy angling areas. (TC-13)	X			X	X		X	Characterize Fish Habitat in Oroville Pond: SP-F3.2 Task 5B	A potential concern would be that stocked fish have potential to interact with the fish in the Feather River. A stocking program could be combined with EWG-47
EWG-50	Lake Oroville	Recreational Fishery Enhancement	Increase Fish Production	Develop cold water fishery in Lake Oroville. This Resource Action would involve developing management protocols for the coldwater fishery upstream of Lake Oroville as well as in the reservoir. (LO-3)				X	X		X		This would be designed to further develop the existing coldwater fishery. (A coldwater fishery already exists in Lake Oroville.)
Terrestrial I	Resources - Enhan	ce and Protect Terrest	rial and Riparian Habitat for	Native Plant and Animal Species									
EWG-51	Low Flow Channel	Riparian Habitat Enhancement	Enhance Riparian Vegetation for Increased Shading and Habitat Complexity.	Enhance riparian vegetation and trees along banks for shading and increased habitat complexity. (FR-35)		X		X	X	X	X	TBD	The first step in this process would be to identify which areas would be addressed, and what plant and tree species would be used. One location for vegetation enhancement could be trailer park riffle along east side, although high-water events may require continued maintenance/improvement.
EWG-52	Low Flow Channel	Terrestrial Species Protection	Minimize Recreational Impacts on Terrestrial Species	Modify recreational use patterns in Feather River to minimize impacts to important terrestrial species (FR-36, FR-40)				X		X		SP-T2 & SP-T9	Exact measures dependent on analysis in upcoming report. Need to identify which species would be impacted (vernal pool species, VELB, plus additional species of concern). Changes might include: closures, modification of boat speeds, angling access, or ORV restrictions. A map defining the area would be helpful to better flush out suggested changes. Need to determine which agency would be responsible for the various reaches (DWR, F&G, and National Parks). Could be combined with EWG-54 & EWG-59.
EWG-53	High Flow Channel	Wildlife Habitat Enhancement	Increase Vegetative Cover	Provide improved vegetation cover and improved recreational screening within important migration corridors. (FR-41)		X		X	X				There would be a need to identify which areas and species would be used. Need to identify which 'problem' we are trying to solve with this resource action. To be considered an action within combination EWG-55 & EWG-60.
EWG-54	Thermalito Complex	Protection of Terrestrial Species	Minimize Terrestrial Impacts from Recreational Use	Modify recreational use patterns in Thermalito Complex to minimize impacts to important terrestrial species (exact measures dependent on analysis in upcoming report) (TC-14)		X		X	X	X		SP-T2 & SP-T9	State Parks is responsible for diversion pool and Forebay; F&G is responsible for Afterbay and OWA. See comments on EWG-52. Could be combined with EWG-52 & EWG-59.
EWG-55	Thermalito Complex	Increase Wildlife Habitat	Provide Additional Vegetative Cover	Provide improved vegetation cover and improved screening within important corridors. (TC-15)	l	X		X	X				Could be combined with EWG-53 & EWG-60.

												R	esource Action Information
Resource Action Number	Geographic Area	Prelimina Project Issue Addressed	Specific Resource Concern Addressed	Description of Potential Resource Action	Temperature Related	Flow/Water Level Related	Construction/Heavy Equipment	O&M	Permitting	Cross-Resource/Area Effect	Need Additional Info	Information Pending [Studies Being Conducted]	Technical Comments and Additional Information Contacts/ Resource Expe
EWG-56	Thermalito Complex	Waterfowl Habitat Enhancement	I Increasing Necting Habitat	Construct and maintain additional brood ponds to accommodate nesting waterfowl in the Thermalito Afterbay. (TC-16)		X	X	X	X	X	X	SP-T1	Must consider land availability. Response is Afterbay fluctuations.
EWG-57	Thermalito Complex	Waterfowl Habitat Enhancement		Enhance upland cover in the vicinity of the Thermalito Afterbay for the benefit of nesting waterfowl. (TC-17)		X	X	X		X	X	SP-T1	Irrigation of installed upland cover would need to be addressed. [Curtis is investigating this.] Resource Actions could include the use of various species (CDFG seedmix, (wheatgrass/ vetch/barley, etc.) [Initial estimate: \$140 to plow, seed, and fertilize.] Upland cover enhancement can provide higher nesting densities (2-3 nests/acre) for waterfowl than current brood ponds. Plowing upland could be a cross resource issue (loss of native grasslands).
EWG-58	Oroville Wildlife Area	Waterfowl Habitat Enhancement	Increase Habitat for Nesting Waterfowl	Install wood duck nest boxes in the OWA.				X		X		SP-T1 & SP-T9	Nest boxes installed in D-area of OWA to develop duck habitat. Would be done in conjunction with CWA & Ducks Unlimited. DWR would purchase material, and CWA & DU would install boxes.
EWG-59	Oroville Wildlife Area	Protection of Terrestrial Species		Modify recreational use patterns in Feather River and OWA reach to minimize impacts to important terrestrial species. (TC-26)				X		X	X	SP-T2 & SP-T9	Species of concern would include VELB. Need to complete species survey. [Exact measures dependent on results of study plan report.] Could be combined with EWG-52 & EWG-54.
EWG-60	Oroville Wildlife Area	Wildlife Habitat Enhancement		Provide improved vegetation cover and screening within important corridors within the OWA. (TC-27)		X		X	X				Could be combined with EWG-53 & EWG-55.
EWG-61	Oroville Wildlife Area	Riparian Habitat Enhancement	Increase Riparian Recruitment	Develop a hydrologic flow regime (management protocols) to support natural regeneration of riparian recruitment along the Feather River. (FR-39, TC-28)		X		X		X	X	SP-T3-5 (modeling)	This could include establishing a flow regime which would inundate the floodplain, and gradually reduce the water levels in order to allow for the establishment of root systems. The frequency of the flooding could be on the order of once every 5 to 10 years. Not further defined at this time. Could be combined with EWG-66. E&O modeling is related.
EWG-62	Lake Oroville	Upland Habitat Enhancement		Implement vegetation or restoration activities to enhance or restore native plant communities in the Lake Oroville upland areas.(LO-9)			X	X	X	X	X	SP-T10 & SP-T11	Potential sites not defined at this time. SP-T10 will identify areas for vegetation restoration. Potential liability issues. State Parks would have an interest here (enhancing natural processes). Remove and revegetate abandoned recreation trails. State Parks is interested a biomass reduction program to reduce potential wildland fires. This may influence the restoration activities.
EWG-63	Lake Oroville	Terrestrial Habitat Enhancement	Reduction of Nuisance	Retrofit existing Lake Oroville recreational facilities to remove potential food sources, nesting sites, and rodent refuge areas for nuisance or pest species. (LO-10)				X		X	X	SP-T8	Remove nest sites, food sources. There may be some native species impacts (non-nuisance) through implementation of this action.
EWG-64	Lake Oroville	Terrestrial Habitat Enhancement		Implement measures to reduce populations of nuisance non-native wildlife in the Lake Oroville areas. (LO-11)							X	SP-T8	Not further defined at this time. This Resource Action may not be necessary because it is covered by EWG-63. It could remain if it deals with the turkey issue. A literature review (turkeys feeding habits) could be implemented to determine problems & potential solutions.
EWG-65	Lake Oroville	Terrestrial Species Enhancement	Reduce Recreational Impacts	Implement measures to reduce recreational disturbances (i.e. trespass & grading) on wildlife populations as needed based on the results of study plan SP-T9. (LO-12)				X		X	X	SP-T2 & SP-T9	Not further defined at this time. Trespass Issues? (A Recreational issue) SP-G1 may also provide erosion data. Actions could include closing trails to protect nesting bald eagles.

												P	Resource Action Information	
	_ 	Prelimin	ary: For Environmental Work	c Group Discussion Only	d	ıted	y			Effect	.0	udies		
Resource Action Number	Geographic Area	Project Issue Addressed	Specific Resource Concern Addressed	Description of Potential Resource Action	Temperature Related	Flow/Water Level Related	Construction/Heavy Equipment	0&M	Permitting	Cross-Resource/Area E	Need Additional Info	Information Pending [Studies Being Conducted]	Comments and Additional Information Re	Technical Contacts/ Resource Expert
EWG-66	High Flow Channel	Riparian Habitat Enhancement	Increase Riparian Recruitment	Develop a hydrologic flow regime to support natural regeneration of riparian vegetation along the Feather River. (FR-39, TC-18, TC-28)		X		X		X	X	SP-T3-5	Could involve riparian restoration, removing beaver dams (within the OWA) or developing protocols to address enhancement for cottonwood trees. Not further defined at this time. E&O modeling is related. [Flow related For the modeling efforts]. Need to identify areas for active restoration or re-plantings. Could be combined with EWG-61.	
EWG-67	Thermalito Complex	Riparian Habitat Enhancement	Increase Wetland Development	Initiate active vegetation plantings in Thermalito Afterbay area. (TC-19)				X	X		X	SP-T 3-5 & SP-T7	This resource action would also be useful for the OWA. This action would also be triggered to compensate for non-native species removal (revegetate areas that have been remove).	
EWG-68	Thermalito Complex	Waterfowl Habitat Enhancement		Recharge brood ponds at 3-week intervals for the brooding periods (March 15 to June 15). (TC-20)		X		X		X	X	SP-T1	Limits operational flexibility at Thermalito Complex. This action would be especially useful in dry years.	
EWG-68A	Lake Oroville	Riparian Habitat Enhancement		Build or enhance riparian habitat in the fluctuation zone of Lake Oroville Reservoir.		X		X	X	X		SP-T3-5	Could provide recreational fishing benefits.	
Terrestrial 1	Resources - Control	l the Dispersal of Non	-Native/Undesirable Plant Spe	ecies			1	•	•					
EWG-70	Low Flow Channel	Non-Native Plant Control	Eliminate Noxious Plants	Eliminate noxious plants via biological control, herbicidal treatment or mechanical control and replant with native species. (FR-37, FR-42, TC 21, TC-29)				X	X	X		SP-T7	May require continued maintenance due to periodic high-flow events or evaluation of appropriate technique. Could be combined with EWG-74.	
EWG-73	Thermalito Complex	Non-Native Plant Control		Control non-native and undesirable plant species (e.g.,. purple loose-strife) in the Thermalito Complex. (TC-23)					X		X	SP-T7	Further information in needed on the life history traits and distribution of non- native and undesirable plant species in the area.	
EWG-74	Oroville Wildlife Area	Non-Native Plant Control	Eliminate Noxious Plants	Eliminate noxious plants via biological control, herbicidal treatment or mechanical control and replant with native species. (FR-37, FR-42, TC 21, TC-29)				X	X	X	X	SP-T7	May require continued maintenance due to periodic high-flow events or evaluation of appropriate technique. Could be combined with EWG-70.	
EWG-74A	Lake Oroville	Non-Native Plant Control	Eliminate Noxious Plants	Eliminate noxious plants via biological control, herbicidal treatment or mechanical control and replant with native species (FR-37, FR-42, TC 21, TC-29)				X	X	X	X	SP-T7	May require continued maintenance due to periodic high-flow events or evaluation of appropriate technique. Could be combined with EWG-69.	
EWG-75	Oroville Wildlife Area	Non-Native Plant Control	Eliminate Noxious Plants	Develop construction and recreational management protocols to control the spread of noxious species. (FR-44, TC-22, TC-30)						X		SP-T7	This Resource Action would address dispersal of primrose. Could be combined with EWG-78 & EWG-80.	
EWG-76	Oroville Wildlife Area	Non-Native Plant Control	Eliminate Noxious Plants	Develop a variety of control measures, including hydrologic regime, to support and protect native riparian vegetation in the Oroville Wildlife Area. (TC-31)		X		X		X	X	SP-T7	This Resource Action would incorporate life history traits and distribution of native and non-native species from ongoing studies, in addition to information on groundwater and surface water supply in the vicinity of the OWA. Not further defined at this time. Could involve deepening ponds so they do not dry up. Need to focus on primrose using a variety of control measures.	
Terrestrial 1	Resources - Protect	and Enhance Popular	tions of T&E Plant and Anima	al Species										
EWG-77	Low Flow Channel	Riparian Habitat Enhancement		Enhance or add riparian habitat for threatened and endangered species in the low flow section of the Feather River. (FR-38)					X	X	X		At this time, this Resource Action is not specific to locations within the low flow section of the Feather River or species that would be involved in riparian enhancement (may require continued maintenance due to periodic high-flow events). The addition of riparian habitat may require land acquisition. Need to identify T&E species. Could be combined with EWG-79.	

												R	esource Action Information	
		Prelimina	ary: For Environmental Work	Group Discussion Only	T.	ted				Effect		udies		
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EWG-78A	Thermalito Complex	Riparian Habitat Enhancement	Habitat Enhancement for Special Status Species	Develop maintenance and recreational management protocols to avoic impact to special status species within the project area. (FR-45, TC-24)							X	SP-T2 & SP-T9	Specific measures associated with this Resource Action are not identified at this time (added 5/7/2003). Could be combined with EWG-80.	
EWG-78	High Flow Channel	Protection of Riparian Habitat	Habitat Protection for Special Status Species	Develop maintenance and recreational management protocols to avoid impact to special status species within the project area. Specific measures associated with this Resource Action are not identified at this time. (FR-45, TC-24)							X	SP-T2 & SP-T9	Could be combined with EWG-80.	
EWG-79	Oroville Wildlife Area	Riparian Habitat Enhancement	I hreatened X ₁ Endangered	Enhance riparian habitat for threatened and endangered species in the OWA. (FR-38, TC-32)				X	X	X	X	SP-T2 & SP-T4	Some areas could require continued maintenance due to periodic high-flow events. At this time, this Resource Action is not specific to locations within the OWA. Could be combined with EWG-77.	
EWG-80	Oroville Wildlife Area	Protection of Riparian Habitat	Habitat Protection for Special Status Species	Develop maintenance and recreational management protocols to avoic impact to special status species within the project area. (FR-45, TC-24, TC-33)							X	SP-T2 & SP-T9	Specific measures associated with this Resource Action are not identified at this time. Could be combined with EWG-78.	
EWG-81	Lake Oroville	Protection of Riparian Habitat		Develop disturbance avoidance plans in the vicinity of nest sites during the nesting season of bald eagles and peregrine falcons. (LO-13)							X		Not further defined at this time.	
EWG-82	Lake Oroville	Protection of Riparian Habitat	Habitat Protection for Sensitive Plant Species	Develop protection and avoidance protocols for sensitive plant populations in the Lake Oroville Area. (LO-14)							X		Not further defined at this time. Could be combined with similar Resource Actions above.	
Water Quali	ty Maintain and	l Protect Water Qualit	y for All Beneficial Uses											
EWG-83	High Flow Channel	Enhance Fish Habitat	Improve Water Temperature for Salmonids	Operate the Thermalito Complex to provide colder water to Lower Feather River for the benefit of salmonids. (EWG-35). (FR-46) (TC-7)	X	X			X	X			Related to EWG-35. This would improve habitat for rearing juvenile and prespawning adults.	
EWG-84	Low Flow Channel	Water Quality	Improve Water Quality	The settling ponds associated with the Feather River Fish Hatchery are designed to hold effluent until evaporation occurs, but there is high connectivity between the ponds and the Feather River. Leaching occurs from the settling ponds to the Feather River. The ponds' gravel bottom provides some unknown level of filtration. This Resource Action would construct new settling ponds at the existing location or in a different area that would prevent leaching and/or enhance evaporation. (FR-47)			X	x	x		x		May reduce flow in 'Hatchery Ditch', which is heavily used Chinook salmon and steelhead spawning area. Could be combined with EWG-85.	
EWG-85	Low Flow Channel	Water Quality	Improve Water Quality	Line existing holding pond with impermeable barrier to prevent leaching (FR-48)			X	X			X		May reduce flow in 'Hatchery Ditch', which is heavily used Chinook salmon and steelhead spawning area.	
EWG-86	Low Flow Channel	Water Quality	Improve Water Quality	Assuming further toxic screening indicates problems, post "no swim" or "don't eat fish" warnings anywhere that tissue and/or sediment results suggest problems may be present. (FR-49)									Additional geographic areas would also be evaluated.	

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EWG-87	Thermalito Complex	Water Temperature	Improve Water Temperature for Salmonids	Operate or modify the Oroville Complex in a manner to provide suitable warm water for agricultural purposes, while providing adequate cold water releases at the Thermalito Afterbay Outlet. (FR-46)	v	X			X	X	X	SP-W6	Possible conflict with effects of EWG-83 on temperature for salmonids.	
Fluvial Proc	esses - Maintain ai	nd Enhance Aquatic H	abitat									_		
EWG-88 (move to fishery section?)	Low Flow Channel	Increase Fish Spawning Habitat	Spawning Gravel Quantity	Increase flows in the low-flow reach of the Feather River reach to increase available spawning habitat. This Resource Action would increase flows above current levels (600 cfs) during peak Chinool spawning to increase the quantity of habitat available for salmonids (FR-51)	l X	X		X	X	X	X	SP-F16 SP-G2	This Resource Action would need to keep flows up during periods of fish spawning so as to not dewater redds. Ongoing field analysis associated with SP-G2 will provide additional data. Essentially the same Resource Action as EWG-15. SP-F16 will determine the flow range at which weighted usable area (WUA) is greatest.	
EWG-89	Low Flow Channel	Spawning Habitat Enhancement	Spawning Gravel Habitat	Create levee setbacks to increase meandering nature of river and improve gravel composition in critical spawning reaches of the low-flow reach (FR-52)		X	X		X		X	SP-G2	Ongoing field analysis associated with SP-G2 will provide additional data.	
EWG-90 (move to fishery section?)	Low Flow Channel	Spawning Habitat Enhancement	Spawning Gravel Quantity	Rip sections of the low-flow reach to improve spawning grave composition for Chinook salmon and steelhead. This Resource Action is not specific to location at this time; results from ongoing geomorphology studies (SP-G2) will be used to better define ripping and target locations in the low-flow reach. (FR-53)	1		X	x	X	X	X	SP-F10.2A-gravel quality and armoring SP-G2	Ongoing field analysis associated with SP-G2 will provide additional data. May impact water quality in the Feather River. Related to EWG-18.	
EWG-91 (move to fishery section?)	Low Flow Channel	Spawning Habitat Enhancement	Spawning Gravel Quantity	Supplement the low-flow reach with suitable spawning gravel to increase productivity (i.e., # fish produced per unit area). (FR-50)			X	X	X	X	X	quality and armoring	This option likely would require continued gravel supplementation over time. Gravel could be obtained from OWA. Ongoing field analysis associated with SP-G2 will provide additional data. Related to EWG 92.	
EWG-92 (move to fishery section?)	Low Flow Channel	Spawning Habitat Enhancement	Spawning Gravel Quantity	Gravel replacement on the lower reach spawning riffles if these areas are found to be of poor spawning quality (ongoing, SP-G2). (FR-55)	S		X	x	x	X	X	SP-F10.2A-gravel quality and armoring SP-G2	Ongoing field analysis associated with SP-G2 will provide additional data. Related to EWG-91.	
EWG-93	Low Flow Channel	Enhance Fish Habitat	Hydraulic Characteristics of Channel Configuration	Mechanical or hydraulic changes to areas in the low flow reach have been suggested to improve fish habitat. This Resource Action could include several options, such as leveling off selected gravel bars so they are inundated at particular flows, dig side-channels that provide suitable velocity and cover for juvenile fishes, and reconfiguring selected sections of the stream channel to establish additional inundated benches to provide suitable splittail spawning habitat. (FR-54)	1	X	X		X	X	X	SP-G2	Needs to be further developed.	
EWG-94	Oroville Wildlife Area	Enhance Fish Habitat	Hydraulic Characteristics of Channel Configuration	Increase floodplain connectivity between OWA and mainstrean Feather River with the goal of increasing inflow to selected OWA ponds during higher flows. (TC-34)		X	X	X	X	X	X	SP-G2	Related to EWG-22 & EWG-95.	

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Fluvial Proce	esses - Minimize P	roject Impacts on Eros	ion and Sedimentation					<u>. </u>		<u> </u>				
EWG-95	Lake Oroville	Impaired Fish Passage	Erosion	Stabilize target stream and reservoir banks to prevent mass wasting. The appropriate bank stabilization method is unknown at this time. (LO 15)			X		X		X	SP-G1		
EWG-96	Upstream Tributaries	Impaired Fish Passage	Erosion	Stabilize hillslope near Black Canyon and remove sediment barrier. Related to fish passage Resource Actions associated with sediment plugs. (LO-16)		X	X	X	X	X	X	SP-G1	Related to EWG-10.	
Proposed Re	source Actions Eli	iminated From Further	Analysis											
EWG-6	High Flow Channel	Impaired Fish Passage	Impaired Fish Passage	Re-condition the existing benches along the lower Feather River reach to improve fisheries habitat. (FR-18)			X		X	X	X		This Resource Action is to be considered for removal, as it is the same as EWG-19.	
EWG-7	High Flow Channel	Impaired Fish Passage	Adult sturgeon fish performance metrics	Assist in field calibration of sturgeon passage information from University California-Davis studies (conducted in lab in 2003). (FR-19)									Not a PM&E. Assist in field calibration of sturgeon passage information from University California-Davis studies (conducted in lab in 2003)	
EWG-8	High Flow Channel	Impaired Fish Passage	Adult sturgeon upstream passage	Conduct field-tracking studies to determine timing and movement patterns of sturgeon in Feather River (i.e., field-verify whether sturgeon can migrate past Sunset pumps and Shanghai Bench (FR-20)								SP-F3.2 Task 3A is doing this if we catch any sturgeon	Not a PM&E. Conduct field-tracking studies to determine timing and movement patterns of sturgeon in Feather River (i.e., field-verify whether sturgeon can migrate past Sunset pumps and Shanghai Bench (FR-20)	
EWG-12	High Flow Channel	Stocked Fish Passage	Passage of Stocked Rainbow Trout Into Feather River	Install a fish-counting and identification device at the Thermalito Afterbay Outlet and Diversion Dam. (TC-2)									Not a PM&E. Could be combined with EWG-11.	
EWG-46	Thermalito Complex	Fish Disease Concerns	Feather River Fish Hatchery Practices	Evaluate all proposed management actions for relevance to fish disease concerns. (FR-11, FR-30, TC-11, LO-2)								SP-F2	Not a PM&E. Could be combined with EWG-39, EWG-43, & EWG-49.	
EWG-49	Lake Oroville	Fish Disease Concerns	Feather River Fish Hatchery Practices	Evaluate all proposed management actions for relevance to fish disease concerns. (FR-11, FR-30, TC-11, LO-2)								SP-F2	Not a PM&E. Could be combined with EWG-39, EWG-43, & EWG-46.	
EWG-69	Thermalito Complex	Waterfowl Habitat Enhancement	Increase Habitat for Migrating Waterfowl	Provide upland cover enhancement in the vicinity of the Thermalito Afterbay for the benefit of nesting waterfowl. Upland cover enhancement can provide higher nesting densities (2-3 nests/acre) for waterfowl than current brood ponds. (TC-25)					X				This Resource Action is the same as EWG-57.	
EWG-71	High Flow Channel	Non-Native Plant Control	Proliferation of Non-Native Plants	Develop flow regime to control establishment of noxious species below the Thermalito Afterbay Outlet (FR-43)		X				X		SP-T7	This resource action will not be further evaluated because flow control measures would not control non-native plant species in the high-flow area.	
EWG-72	High Flow Channel	Non-Native Plant Control	Proliferation of Non-Native Plants	Develop construction and recreational management protocols to control the spread of noxious species. (FR-44, TC-22)						X			There is nothing that can be done to control this in the high flow area (OWA only).	